United States of America

FEDERAL COMMUNICATIONS COMMISSION

AM BROADCAST STATION LICENSE

Authorizing Official:

Official Mailing Address:

ATLANTA CATHOLIC RADIO, INC.
7645 SOUTH SPALDING LAKE DRIVE
ATLANTA GA 30350

Son Nguyen
Supervisory Engineer
Audio Division
Media Bureau

Grant Date: JAN - 3 2019

Facility Id: 15521

Call Sign: WCFO

This license expires 3:00 a.m. local time, April 01, 2020.

License File Number: BML-20180406ABV

This license modifies license no. BL-20050214AHG to reflect change in status from "commercial" to "non-commercial educational" (NCE).

Subject to the provisions of the Communications Act of 1934, subsequent acts and treaties, and all regulations heretofore or hereafter made by this Commission, and further subject to the conditions set forth in this license, the licensee is hereby authorized to use and operate the radio transmitting apparatus herein described.

This license is issued on the licensee's representation that the statements contained in licensee's application are true and that the undertakings therein contained so far as they are consistent herewith, will be carried out in good faith. The licensee shall, during the term of this license, render such broadcasting service as will serve the public interest, convenience, or necessity to the full extent of the privileges herein conferred.

This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequency designated in the license beyond the term hereof, nor in any other manner than authorized herein. Neither the license nor the right granted hereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934. This license is subject to the right of use or control by the Government of the United States conferred by Section 606 of the Communications Act of 1934.

Hours of Operation: Daytime with Secondary nighttime

Average hours of sunrise and sunset:
Local Standard Time (Non-Advanced)

Jan.	7:45 AM	5:45 PM	Jul.	5:30 AM	7:45 PM
Feb.	7:30 AM	6:15 PM	Aug.	6:00 AM	7:30 PM
Mar.	6:45 AM	6:45 PM	Sep.	6:15 AM	6:45 PM
Apr.	6:15 AM	7:15 PM	Oct.	6:45 AM	6:00 PM
May	5:45 AM	7:30 PM	Nov.	7:15 AM	5:30 PM
Jun.	5:30 AM	7:45 PM	Dec.	7:30 AM	5:30 PM

Name of Licensee: ATLANTA CATHOLIC RADIO, INC.

Station Location: EAST POINT, GA

Frequency (kHz): 1160

Station Class: D

Antenna Coordinates:

		Day		
Latitude:	N	33 Deg	49 Min	34 Sec
Longitude:	W	84 Deg	36 Min	20 Sec

		Night		
Latitude:	N	33 Deg	49 Min	34 Sec
Longitude:	W	84 Deg	36 Min	20 Sec

Transmitter(s): Type Accepted. See Sections 73.1660, 73.1665 and 73.1670 of the Commission's Rules.

Nominal Power (kW): Day: 50.0 Night: 0.160

Antenna Input Power (kW): Day: 52.7 Night: 0.160

Antenna Mode: Day: DA Night: ND

(DA=Directional Antenna, ND=Non-directional Antenna; CH=Critical Hours)

Current (amperes): Day: 32.45 Night: 1.79

Resistance (ohms): Day: 50 Night: 50

Non-Directional Antenna: Night
Radiator Height: 57.9 meters; 80.7 deg
Theoretical Efficiency: 299.6 mV/m/kw at 1km

Antenna Registration Number(s):

Day:

Tower No.	ASRN	
1	None	60.7
2	None	60.7
3	None	60.7
4	None	60.7

Night:

Tower No.	ASRN	
1	None	60.7

DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM

Theoretical RMS (mV/m/km): Day: 2140

Standard RMS (mV/m/km): Day: 2249

Augmented RMS (mV/m/km):

Q Factor: Day:

Theoretical Parameters:

Day Directional Antenna:

Tower No.	Field Ratio	Phasing (Deg.)	Spacing (Deg.)	Orientation (Deg.)	Tower Ref Switch *	Height (Deg.)
1	0.6040	114.500	0.0000	0.000	0	80.7
2	0.9370	73.200	126.0000	100.000	0	80.7
3	1.0000	0.000	152.0000	131.000	0	80.7
4	1.1030	138.900	91.5000	185.000	0	80.7

* Tower Reference Switch
0 = Spacing and orientation from reference tower
1 = Spacing and orientation from previous tower

Day Directional Operation:

Twr. No.	Phase (Deg.)	Antenna Monitor Sample Current Ratio
1	103.8	0.715
2	67.1	1.148
3	0	1
4	125	1.256

Antenna Monitor: POTOMAC INSTRUMENTS AM-1901

Sampling System Approved Under Section 73.68 of the Rules.

Monitoring Points:

Day Operation:

Radial (Deg. T)	Distance From Transmitter (kM)	Maximum Field Strength (mV/m)
227.5	2.98	76.64
312	3.54	84.12

Special operating conditions or restrictions:

1 The permittee/licensee in coordination with other users of the site must reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from radiofrequency electromagnetic fields in excess of FCC guidelines.

2 The maximum fundamental field strength produced by the WCFO transmitter shall not exceed 10 millivolts per meter (mV/m) as measured at the Federal Communications Commission's Powder Springs, Georgia monitoring station at any time.

Any and all spurious emissions, other than on frequencies contained within the AM Broadcast band which are in any way related to this station's facilities or transmissions, as detected by the monitoring equipment at the Powder Springs, Georgia monitoring station, shall be no greater than 1 microvolt per meter (uV/m) which is equivalent to 0 dBu.

If any additional reduction in power is necessary after the station becomes operational to comply with the two conditions above, or to eliminate interference to the Powder Springs, Georgia monitoring station, the licensee shall immediately apply for Special Temporary Authority (STA) and shall file an application to the Commission for the altered parameters.

3 Installed about the base of each tower are 120 evenly spaced, buried copper wire radials (#10 awg) extending 64.6 m (212-ft.) from all towers except where shortened and bonded to transverse copper strap between towers. In addition, copper strap runs from the transmitter and down the line of towers and is bonded to ground at the base of each tower.

4 MONITOR POINT DESCRIPTIONS:

227.5° - The monitoring point is located on South Avenue in line with the southwest corner of the driveway of 6001 South Avenue and the manhole cover in the center of the street. The measurement location is on the west shoulder of South Avenue and 140 feet south of the intersection with Sherwood Drive. The monitor point is 2.98 km from site. The field intensity measured at this point should not exceed 76.64 mV/m.

312° - The monitoring point is located on Columbine Drive 195 feet east of the intersection with Sumac Drive. The measurement location is on the north shoulder of Columbine Drive on a manhole cover in the center of a concrete drain culvert southeast of the tennis court. The monitor point is 3.54 km from site. The field intensity measured at this point should not exceed 84.12 mV/m.

*** END OF AUTHORIZATION ***